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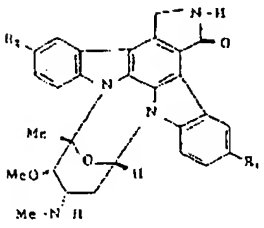
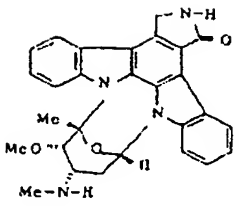
TITLE : STAUROSPORINE DERIVATIVE



I



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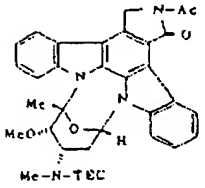

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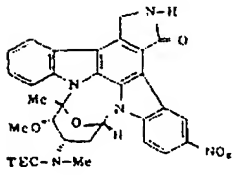

IV

ABSTRACT : NEW MATERIAL:A compound expressed by formula I (R_1 and R_2 are H, amino, OH or hydroxymethyl, provided that both R_1 and R_2 are not H).

EXAMPLE: 3-Aminostaurosporine.

USE: A blood platelet agglutination inhibitor.

PREPARATION: The methylamino group at the 4'-N-position of a staurosporine expressed by formula II is protected to provide 4'-N-(β,β,β- trichloroethoxycarbonyl)staurosporine, which is then reacted with acetic anhydride to afford an acetyl derivative expressed by formula III (TEC is β,β,β- trichloroethyoxycarbonyl). The resultant derivative is subsequently reacted with nitronium trifluorosulfonate to provide a mononitro derivative, which is then deacetylated to afford a compound expressed by formula IV. The obtained compound expressed by formula IV is subsequently reacted with zinc dust and dilute hydrochloric acid to provide the compound expressed by formula I (group R_1 is amino group and group R_2 is H).